

**Dr. Abou Talib, M.Sc., Ph.D.**  
**Research officer**

National biodiversity board of  
Uttarakhand.423 vasant vihar  
indra nagar colony dehradun.

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**Career Objective**

To obtain a challenging position in a high quality research environment where my resourceful experience and academic skills will add value to organizational operations.

**Academic Credentials**

**Ph.D., Nanotechnology** : National SUN YAT SEN University Kaohsiung  
(2011-2016) Taiwan.

**Thesis Title** : Optical Properties and Biological Application  
Of Ag, Au and carbon nanoparticles.

**M. Sc. Organic Chemistry** : Jamia Millia Islamia central university india .  
(2007-2009)

**Thesis Title** : Synthesis of chalcone derivatives from  
acetophenone and benzaldehyde .

**B.Sc. Chemistry** : Jamia Millia Islamia central university india .  
(2001-2004)

**Teaching experience**

I have served as assistant professor chemistry at lovely professional university from august 2016 to june 2018.

### **Best Three Research Publications**

- (1) M. Manikandan, Hani Nasser Abdelhamid, **Abou Talib**, Hui-Fen Wu. Facile synthesis of gold nanohexagons on graphene templates in Raman spectroscopy for biosensing cancer and cancer stem cells, *Biosensors and Bioelectronics*. 55, **2014**, 180-186 (**IF 7.78**).
- (2) **Abou Talib**, Sunil Pandey, Mukeshchand Thakur, Hui-Fen Wu. Synthesis of highly fluorescent hydrophobic carbon dots by hot injection method using Paraplast as precursor. *Material Science and engineering*, 48, **2014**, 700-703 (**IF 4.16**).
- (3) Sunil Pandey, **Abou Talib**, M. Mukeshchand Thakur, M. Shahnawaz Khan, Mukesh Lavkush Bhaisare, Gangaraju Gedda, Hui-Fen Wu. Tellurium Platinate Nanowires for Photothermal therapy of Cancer cells , *Journal of Materials Chemistry B*. 4, **2016**, 3713-3720 (**IF 4.726**).

### **Research Publication**

- (1) M. Shahnawaz Khan, **Abou Talib**, Sunil Pandey, Mukesh L. Bhaisare, Hui-Fen Wu. Folic Acid navigated Silver Selenide nanoparticles for photothermal ablation of cancer cells. *Colloids and Surfaces B: Biointerfaces*. 159, **2017**, 564-570 (**IF 4.152**).
- (2) Hani Nasser Abdelhamid, **Abou Talib**, Hui-Fen Wu. One pot synthesis of gold-carbon dots nanocomposite and its application for cytosensing of metals for cancer cells. *Talanta*. 166, **2017**, 357-363 (**IF 3.545**).
- (3) Sunil Pandey, **Abou Talib**, M. Mukeshchand Thakur, M. Shahnawaz Khan, Mukesh Lavkush Bhaisare, Gangaraju Gedda, Hui-Fen Wu. Tellurium Platinate Nanowires for Photothermal therapy of Cancer cells , *Journal of Materials Chemistry B*. 4, **2016**, 3713-3720 (**IF 4.726**).

- (4) **Abou Talib**, Hui-Fen-Wu. Biomimetic synthesis of lotus leaf extract-assisted silver nanoparticles and shape-directing role of cetyltrimethylammonium bromide. *Journal of Molecular Liquid*, 220, **2016**, 795-801 (**IF 2.5**).
- (5) **Abou Talib**, M. Shahnawaz Khan, Ganga Raju Gedda, Hui-Fen-Wu. Stabilization of Gold Nanoparticles using Natural Plant Gel: A greener step towards biological applications. *Journal of Molecular Liquid*, 220, **2016**, 463-467 (**IF 2.5**).
- (6) Gangaraju Gedda, Sunil Pandey, M. Shahnawaz Khan, **Abou Talib**, Hui-Fen Wu. Synthesis of mesoporous titanium oxide for release control and high efficiency drug delivery of vinorelbine bitartrate, *RSC Advances*, 6, **2016**, 13415-13151 (**IF 3.708**).
- (7) M Shahnawaz Khan, Sunil Pandey, **Abou Talib**, Mukesh Lavkush Bhaisare, Hui-Fen Wu. Controlled delivery of dopamine hydrochloride using surface modified carbon dots for Neuro diseases. *Colloids and surfaces B: Biointerfaces* 134, **2015**, Pages 140-146 (**IF 4.2**).
- (8) Mukesh Lavkush Bhaisare, **Abou Talib**, Sunil Pandey, M Shahnawaz Khan, Hui-Fen Wu. Fluorescent Carbon Dots Synthesized via Microwave Carbonization of Citric Acid with Assistance of Tetraoctylammonium Bromide for the Applications in Bio-imaging. *Microchimicaacta*, 182, **2015**, 2173-2181 (**IF3.719**).
- (9) Hani Nasser Abdelhamid, **Abou Talib**, and Hui-Fen Wu. Facile synthesis of water soluble silver ferrite (AgFeO<sub>2</sub>) nanoparticles and their biological application as antibacterial agents. *RSC Advances*, 5, **2015**, 39952-39953 (**IF 3.84**).

- (10) **Abou Talib**, Sunil Pandey, Mukeshchand Thakur, Hui-Fen Wu. Synthesis of highly fluorescent hydrophobic carbon dots by hot injection method using Paraplast as precursor. *Material Science and engineering*, 48, 2014, 700-703 (IF 3.0).
- (11) Sunil Pandey, Mukeshchand Thakur, **Abou Talib**, M Shahnawaz Khan, Mukesh Lavkush Bhaiare, Hui-Fen Wu. Laser assisted synthesis of Multi-colored Protein dots and their biological distribution in mice using Dye tracking method: A novel approach to deliver therapeutic payloads to central nervous system. *RSC advances*, 5, 2014, 4051-4057 (IF 3.708).
- (12) M. Shahnawaz Khan, Mukesh L. Bhaiare , Sunil Pandey, **Abou Talib**, Shou-Mei Wu. Suresh Kumar Kailasa , Hui-Fen Wu Exploring the ability of water soluble carbon dots as matrix for detecting neurological disorders using MALDI-TOF MS, *International Journal of Mass Spectrometry*, 393, 2015, 25-33(IF 1.9).
- (13) Mukesh Lavkush Bhaiare, Sunil Pandey, M. Shahnawaz Khan, **Abou Talib**, Hui-Fen Wu. Fluorophotometric Determination of Critical Micelle Concentration (CMC) of Ionic and Non-ionic Surfactants with Carbon Dots via Stokes Shift, *Talanta*, 132, 2014, 572-578 (IF 3.794).
- (14) Javed Ijaz Hussain, **Abou Talib**, Sunil Kumar, Shaeel Ahmed AL-Thabaiti, Athar Adil Hashmi, Zaheer Khan. Time dependence of nucleation and growth of silver nanoparticles. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 381, 2011, 23-30 (IF.2.7).
- (15) Zaheer Khan, **Abou Talib**. Growth of different morphologies (quantum dots to nanorod) of Ag-nanoparticles: Role of cysteine concentrations. *Colloids and Surfaces B: Biointerfaces*. 76, 2010, 164-169 (IF 4.1).

- (16) Sunil Pandeya, Ganga Raju Gedda, Mukesh chand Thakur, Mukesh Lavkush Bhaisare, **Abou Talib**, M. Shahnawaz Khan, Shou-Mei Wu, Hui-Fen Wu, Theranostic carbon dots ‘clathrate-like’ nanostructures for targeted photo-chemotherapy and bioimaging of cancer. Journal of Industrial and Engineering Chemistry. Volume 56, 25 December 2017, Pages 62-73 (IF3.9)

### **International & National Conferences/Workshops**

- Presented a paper in “**International Conference on chemical engineering and physical sciences (2017)**”, Phagwara Punjab, India. Organized by Faculty of natural science lovely professional university Punjab.
- Presented a paper in “**International Conference on chemical and biochemical engineering (ISERD 2016)**”, New York USA. Organized by international society for engineering research and development . (***Best Poster Award***) .
- Presented a paper in “**Annual retreat of the marine biotechnology degree program (2016)**”, Kaohsiung Taiwan. Organized by department of marine biotechnology NSYSU Taiwan.

### **Research Interest**

- Green synthesis of metal nanoparticles and their biological applications.
- Nano-catalyst based anti-cancer and antimicrobial activity.
- Synthesis of different color carbon Nano materials for bio imaging.
- Chemical synthesis of metals nanoparticles and their optical properties.

## **Instrumentation & Analytical Skills**

Hands on experience with Knowledge in operation, characterization and interpretation of samples using highly sophisticated instruments such as

- ✓ **UV-Visible spectrophotometer**
- ✓ **FT-IR Spectroscopy**
- ✓ **HPLC**
- ✓ **MALDI-TOF**
- ✓ **Flow Cytometer**
- ✓ **Fluorescence Microscope**
- ✓ **Raman Spectrometer**
- ✓ **Fluorescence Spectrometer**
- ✓ **SEM, TEM, AFM, XRD, SAED, EDAX**

## **Personal Details**

Date of birth : March 15, 1984  
Sex : Male  
Marital status : Single  
Nationality : Indian  
Permanent Address : Dr.Abou Talib c/o mr. raees  
near police choki turakman gate  
Aligarh(202001),UP, India

## **Declaration**

I, here by, declare that all the above-furnished details are true to the best of my knowledge and belief.

Place: Dehradun, india.  
Date : 11<sup>th</sup> nov, 2020

Dr.Abou Talib

## References

**Dr. Manikandan Muthu (Assitant Professor)**

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**Dr. Hui Fen Wu(Professor)**

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